

SEQUENCE LISTING

<110> Britton, Warwick
Demangel, Caroline

<120> Compositions and Methods for Targeting
Antigen-Presenting Cells With Antibody Single-Chain Variable
Region Fragments

<130> 13311.1002U

<160> 18

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 729

<212> DNA

<213> Artificial sequence

<220>

<223> Nucleotide sequence encoding fusion protein

<400> 1

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cgagactccg	tgaagggccg	attcactttc	tccagggata	atgcaaaaag	caccctatat	240
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caagggtata	cctactttga	ttactggggc	caagggacca	cggtcacccgt	ctcctcaggt	360
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<210> 2

<211> 243

<212> PRT

<213> Artificial sequence

<220>

<223> Fusion protein

<400> 2

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Gly	Met	His	Trp	Ile	Arg	Gln	Ser	Pro	Thr	Lys	Gly	Leu	Glu	Trp	Val
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Ala	Ser	Ile	Ser	Pro	Ser	Gly	Gly	Thr	Thr	Tyr	Tyr	Arg	Asp	Ser	Val
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Lys	Gly	Arg	Phe	Thr	Phe	Ser	Arg	Asp	Asn	Ala	Lys	Ser	Thr	Leu	Tyr

65	70	75	80												
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		165				170								175	
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Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Arg	Asp	Tyr	Ser	Phe	Thr
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Ile	Ser	Ser	Leu	Glu	Ser	Glu	Asp	Val	Gly	Ser	Tyr	Tyr	Cys	Gln	His
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Tyr	Tyr	Asp	Tyr	Pro	Arg	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Leu	Glu	Ile
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Lys	Arg	Ala													

<210> 3

<211> 1623

<212> DNA

<213> Artificial Sequence

<220>

<223> Nucleotide sequence encoding fusion protein

<400> 3

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<210> 4
<211> 726
<212> DNA
<213> Artificial sequence

<220>
<223> Nucleotide sequence encoding fusion protein

<400> 4

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cctgaacagg	gacttgagtg	gattggatgg	attttcctg	gagaggggag	tactgaatac	180
aatgagaagt	tcaagggcag	ggccacactg	agtgtagaca	agtccctccag	cacagcctat	240
atggagctca	ctaggctgac	atctgaggac	tctgctgtct	atttctgtgc	tagaggggac	300
tactataggc	gctacttga	cttgggggc	caagggacca	cggtcaccgt	ctcctcaggt	360
ggaggcgggtt	caggcggagg	tggatccggc	gggtggggat	cggacatcca	gatgactcag	420
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cagaacatca	agggttgggtt	agcctggtac	caacaaaagt	caggaaatgc	tcctcaactg	540
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aaacgg						726

<210> 5
<211> 119
<212> PRT
<213> Rat

<400> 5

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					20				25			30			
Asp	Ile	Asp	Trp	Val	Arg	Gln	Thr	Pro	Glu	Gln	Gly	Leu	Glu	Trp	Ile
					35			40			45				
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					50			55			60				
Lys	Gly	Arg	Ala	Thr	Leu	Ser	Val	Asp	Lys	Ser	Ser	Ser	Thr	Ala	Tyr
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					85				90			95			
Ala	Arg	Gly	Asp	Tyr	Tyr	Arg	Arg	Tyr	Phe	Asp	Leu	Trp	Gly	Gln	Gly
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					115										

<210> 6
<211> 110
<212> PRT
<213> Rat

<400> 6

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1	5	10	15
Asn Ser Ile Thr Ile Thr Cys His Ala Ser Gln Asn Ile Lys Gly Trp			
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Leu Ala Trp Tyr Gln Gln Lys Ser Gly Asn Ala Pro Gln Leu Leu Ile			
35	40	45	
Tyr Lys Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly			
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Ser Gly Ser Gly Thr Asp Tyr Ile Phe Thr Ile Ser Asn Leu Gln Pro			
65	70	75	80
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<210> 7

<211> 261

<212> PRT

<213> Artificial sequence

<220>

<223> Fusion protein

<400> 7

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Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Ile Phe			
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Thr Ser Tyr Asp Ile Asp Trp Val Arg Gln Thr Pro Glu Gln Gly Leu			
65	70	75	80
Glu Trp Ile Gly Trp Ile Phe Pro Gly Glu Gly Ser Thr Glu Tyr Asn			
85	90	95	
Glu Lys Phe Lys Gly Arg Ala Thr Leu Ser Val Asp Lys Ser Ser Ser			
100	105	110	
Thr Ala Tyr Met Glu Leu Thr Arg Leu Thr Ser Glu Asp Ser Ala Val			
115	120	125	
Tyr Phe Cys Ala Arg Gly Asp Tyr Tyr Arg Arg Tyr Phe Asp Leu Trp			
130	135	140	
Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Ser Gly			
145	150	155	160
Pro Ser Phe Leu Ser Thr Ser Leu Gly Asn Ser Ile Thr Ile Thr Cys			
165	170	175	
His Ala Ser Gln Asn Ile Lys Gly Trp Leu Ala Trp Tyr Gln Gln Lys			
180	185	190	
Ser Gly Asn Ala Pro Gln Leu Leu Ile Tyr Lys Ala Ser Ser Leu Gln			
195	200	205	
Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Thr Asp Tyr			
210	215	220	
Ile Phe Thr Ile Ser Asn Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr			
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<210> 8
<211> 1623
<212> DNA
<213> Artificial Sequence
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<220>
<223> Nucleotide sequence encoding fusion protein

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aaacggggat atccatcaca ctggcggccg ctcgagcatg catctagatt ctccccggccg	840
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<210> 9
<211> 5446
<212> DNA
<213> Artificial Sequence
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<220>
<223> Plasmid vector generated in a laboratory

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<400> 10

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<211> 42

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<210> 12

<211> 5538

<212> DNA

<213> Artificial Sequence

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<210> 13

<211> 978

<212> DNA

<213> *Mycobacterium tuberculosis*

<400> 13

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<210> 14
 <211> 325
 <212> PRT
 <213> *Mycobacterium tuberculosis*

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Glu Tyr Leu Gln Val Pro Ser Pro Ser Met Gly Arg Asp Ile Lys Val	
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Gln Phe Gln Ser Gly Gly Asn Asn Ser Pro Ala Val Tyr Leu Leu Asp	
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Ala Phe Glu Trp Tyr Tyr Gln Ser Gly Leu Ser Ile Val Met Pro Val	
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Gly Gly Gln Ser Ser Phe Tyr Ser Asp Trp Tyr Ser Pro Ala Cys Gly	
115 120 125	
Lys Ala Gly Cys Gln Thr Tyr Lys Trp Glu Thr Phe Leu Thr Ser Glu	
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Ala Tyr His Pro Gln Gln Phe Ile Tyr Ala Gly Ser Leu Ser Ala Leu	
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260 265 270	
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<210> 15
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 <212> DNA

<213> Mycobacterium tuberculosis

<400> 15

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<210> 16

<211> 228

<212> PRT

<213> Mycobacterium tuberculosis

<400> 16

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Lys	Gly	Thr	Asp	Thr	Gly	Gln	Ala	Cys	Gln	Ile	Gln	Met	Ser	Asp	Pro
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Ala	Thr	Ser	Ser	Thr	Pro	Arg	Glu	Ala	Pro	Tyr	Glu	Leu	Asn	Ile	Thr
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<210> 17

<211> 315

<212> DNA

<213> Mycobacterium tuberculosis

<400> 17

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<210> 18

<211> 95

<212> PRT

<213> Mycobacterium tuberculosis

<400> 18

Met	Thr	Glu	Gln	Gln	Trp	Asn	Phe	Ala	Gly	Ile	Glu	Ala	Ala	Ala	Ser
1										10					15
Ala	Ile	Gln	Gly	Asn	Val	Thr	Ser	Ile	His	Ser	Leu	Leu	Asp	Glu	Gly
										25					30
Lys	Gln	Ser	Leu	Thr	Lys	Leu	Ala	Ala	Ala	Trp	Gly	Gly	Ser	Gly	Ser
										35	40				45
Glu	Ala	Tyr	Gln	Gly	Val	Gln	Gln	Lys	Trp	Asp	Ala	Thr	Ala	Thr	Glu
										50	55				60
Leu	Asn	Asn	Ala	Leu	Gln	Asn	Leu	Ala	Arg	Thr	Ile	Ser	Glu	Ala	Gly
										65	70				80
Gln	Ala	Met	Ala	Ser	Thr	Glu	Gly	Asn	Val	Thr	Gly	Met	Phe	Ala	
										85	90				95